

229079



Air samples

RST 2-02-F-0838

TRANSMITTAL MEMO

In Association with Scientific and Environmental Associates, Inc.,
Innovative Technical Solutions, Inc., and Avatar Environmental, LLC



U.S. ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE: February 11, 2009

TO: Nick Magriples, OSC
USEPA Region II

FROM: Smita Sumbaly
RST 2 Data Review Team

SUBJECT: QA/QC Compliance Review Summary

As requested quality control and performance measures for the data packages noted have been examined and compared to EPA standards for compliance. Measures for the following general areas were evaluated as applicable:

| | |
|--------------------------|------------------------|
| Data Completeness | Blanks |
| Spectra Matching Quality | DFTPP and BFB Tuning |
| Surrogate Spikes | Chromatography |
| Matrix Spikes/Duplicates | Holding Times |
| Calibration | Compound ID (HSL, TIC) |

Any statistical measures used to support the following conclusions are attached so that the review may be reviewed by others.

Summary of Results

| | I <u>Lead</u> | II | III |
|------------------------------|-------------------|-------------------|-------------------|
| Acceptable as Submitted | <u>X</u> | <u> </u> | <u> </u> |
| Acceptable with Comments | <u> </u> | <u> </u> | <u> </u> |
| Unacceptable, Action Pending | <u> </u> | <u> </u> | <u> </u> |
| Unacceptable | <u> </u> | <u> </u> | <u> </u> |

Data Reviewed by:

Smita Sumbaly

Date: 2/11/09

Approved By:

Jennifer Sy

Date: 2/12/09

Area Code/Phone No.:

(732) 585-4410

NARRATIVE

CASE No. 2139

SITE NAME: Jewett White Lead Company Site
2000 Richmond Terrace
Staten Island, New York

Laboratory Name: Chemtech, 284 Sheffield Street, Mountainside, New Jersey 07092.

INTRODUCTION:

The laboratory's portion of this Case consisted of 12 air samples collected on December 17 and 18, 2008.

The laboratory reported No problem(s) with the receipt of these samples.

The laboratory reported No problems with the analyses of Total Lead - Inorganic parameter.

The evaluator has commented on the criteria specified under each fraction heading. All criteria have been assessed, but no discussion is given where the evaluator has determined that criteria were adequately performed or require no comment. Details relevant to these comments are given on the following forms.

Appropriate Form Is and Chain of Custody have been copied from the original data package and appended to the data assessment narrative for reference.

IV. Inorganic:-

| | |
|-----------------------------------------------------|---------------------------------------------|
| <u>Y</u> Data Summary/Tabulated Results | <u>Y</u> Initial and Continuing Calibration |
| <u>Y</u> Blanks | <u>Y</u> ICP Interference Check |
| <u>NA</u> Spike Sample Recovery | <u>Y</u> Duplicates |
| <u>Y</u> Detection Limits | <u>NA</u> Standard Addition Results |
| <u>NA</u> ICP Serial Dilutions | <u>Y</u> Holding Times |
| <u>NA</u> ICP Interelement Correction Factors | <u>NA</u> ICP Linear Ranges |
| <u>Y</u> Chain of Custody | <u>Y</u> Raw Data |
| <u>Y</u> Quantitation, Conversions, Dilutions, etc. | |

Comments:

1. Refer to Data Assessment Narrative.

Title: Evaluation of Inorganic Data for the
Contract laboratory Program
Appendix A.2: Data Assessment Narrative

Date: September 2006
Number: HW-2
Revision: 13

PCS #: 2139

Site: Jewett White Lead Chemical Site

SDG#: Z5921

Lab: Chemtech

Matrix:
Air: 12

Contractor: WESTON-RST 2

Reviewer: SMITA SUMBALY

A.2.1 Validation Flags-

The following flags have been applied in red by the data validator and must be considered by the data user.

J-

This flag indicates the result qualified as estimated.

Red- Line-

A red-line drawn through a sample result indicates an unusable value. The red-lined data are known to contain significant errors based on documented information and must not be used by the data user.

Fully Usable Data-

The results that do not carry "J" or "red-line" are fully usable.

Contractual Qualifiers-

The legend of contractual qualifiers applied by the laboratory on Form Is are found on page B – 23 of SOW ILM05.3.

A.2.2 The data assessment is given below and on the attached sheets.

On December 17 and 18, 2008, USEPA Region II RST 2 sampling personnel collected 12 air samples, including two field blanks and one lot blank from the Jewett White Lead Company Site, located in 2000 Richmond Terrace, Staten Island, New York. Within twenty-four hours of collection, the samples were shipped overnight by FedEx courier to Chemtech, 284 Sheffield Street, Mountainside, New Jersey. The laboratory verified that the samples were received intact and properly custody sealed.

Lead analysis for air matrix was prepared by NIOSH Method No. 7300 and analyzed by SW 846 Method No. 6010B.

Client identification (ID) and laboratory ID numbers are as follows:

| Field Sample ID | Lab Sample ID | Matrix | Analysis | Sampling Date |
|-----------------|---------------|--------|----------|---------------|
| JW-LD-3 | Z5921-01 | Air | Lead | 12/18/2008 |
| JW-LD-4 | Z5921-02 | | | 12/18/2008 |
| JW-LD-5 | Z5921-03 | | | 12/18/2008 |
| JW-LD-6 | Z5921-04 | | | 12/18/2008 |
| JW-LD-7 | Z5921-05 | | | 12/18/2008 |
| JW-LD-BK01 | Z5921-06 | | | 12/18/2008 |

Title: Evaluation of Inorganic Data for the
Contract laboratory Program
Appendix A.2: Data Assessment Narrative

Date: September 2006
Number: HW-2
Revision: 13

A.2.2 Continuation

| Field Sample ID | Lab Sample ID | Matrix | Analysis | Sampling Date |
|-----------------|---------------|--------|----------|---------------|
| JW-LD-BK-1 | Z5921-07 | Air | Lead | 12/17/2008 |
| JW-LD-FB | Z5921-08 | | | 12/17/2008 |
| JW-LD-FB 1218 | Z5921-09 | | | 12/18/2008 |
| JW-LD-LB | Z5921-10 | | | 12/18/2008 |
| JW-LD-RST-1218 | Z5921-11 | | | 12/18/2008 |
| JW-LD-RST2 | Z5921-12 | | | 12/17/2008 |

All samples were submitted for screening data with definitive detection limit QA objectives. Matrix Spike, Matrix Spike Duplicate and a field duplicate sample was not collected. All samples were analyzed within the holding time. The laboratory provided the supporting raw data for this package. This data package contains summary of analytical results, blank results, initial and continuing calibration recovery, lab duplicate results, laboratory control sample results, and analysis run log. The correlation coefficient (r^2) of standard concentration versus absorbance readings is greater than ($>$) 0.995 for linear calibration curves generated in the data package. All ICVs/CCVs were run at appropriate intervals as noted on the Calibration Summary form and all ICV/CCV recoveries are within the acceptable range of 90 to 110%. All ICB/CCBs are reported below the method detection limit. Laboratory duplicate analysis is within QC criteria ($\leq 20\%$ RPD) and LCS recoveries are within the acceptable range of 80-120%.

Since the sample analyses were requested for screening data with definitive confirmation, data was evaluated for holding time, calibration, and detection limit criterion.

The results presented in the data package are acceptable as reported.

A.2.3 Contract Problem/Non-Compliance:

Contractor Reviewer:

Smita Sumbaly
Signature

Date:

2/12/09

Verified by:

Signature

Date:

TOTAL METALS WORK TABLE

Project: Jewett White Lead Company Site

SAMPLE #/CONCENTRATION (UG/M3)

Sampling Dates: December 17 and 18, 2008

| | | | | | |
|-----------------|------------|----------|----------|----------|----------|
| Matrix: | Reporting | Air | Air | Air | Air |
| Client ID: | Limit (RL) | JW-LD-3 | JW-LD-4 | JW-LD-5 | JW-LD-6 |
| Lab ID: | | Z5921-01 | Z5921-02 | Z5921-03 | Z5921-04 |
| Air Volume | | 728 L | 709.8 L | 704.45 L | 731.83 L |
| Dilution Factor | ug/Filter | 1.0 | 1.0 | 1.0 | 1.0 |
| | | | | | |
| Lead | 0.042 | 0.041 J | 0.046 J | 0.057 J | 0.073 |

| | | | | | |
|-----------------|------------|----------|------------|------------|----------|
| Matrix: | Reporting | Air | Air | Air | Air |
| Client ID: | Limit (RL) | JW-LD-7 | JW-LD-BK01 | JW-LD-BK-1 | JW-LD-FB |
| Lab ID: | | Z5921-05 | Z5921-06 | Z5921-07 | Z5921-08 |
| Air Volume | | 743.18 L | 32.9 L | 556.7 L | NA |
| Dilution Factor | | 1.0 | 1.0 | 1.0 | 1.0 |
| | | | | | |
| Lead | 0.042 | 0.053 J | 0.721 J | 0.379 | U |

| | | | | | |
|-----------------|------------|--------------|----------|----------------|------------|
| Matrix: | Reporting | Air | Air | Air | Air |
| Client ID: | Limit (RL) | JW-LD-FB1218 | JW-LD-LB | JW-LD-RST-1218 | JW-LD-RST2 |
| Lab ID: | | Z5921-09 | Z5921-10 | Z5921-11 | Z5921-12 |
| Air Volume | | NA | NA | 161.54 L | 556.48 L |
| Dilution Factor | | 1.0 | 1.0 | 1.0 | 1.0 |
| | | | | | |
| Lead | 0.042 | U | U | 0.237 J | 0.071 J |

Inorganic Qualifiers

U - non-detected compound

J - estimated value

R - rejected compound

Note: - RL reported on the Form Is have been adjusted to reflect the final volume and volume of air



284 Sheffield Street • Mountainside, NJ 07092 Phone: 908.789.8900 Fax: 908.789.8922

February 11, 2009

Weston Solutions, Inc.
Raritan Plaza Suite 201
1090 King Georges Post Road
Edison, NJ 08837-3703

Attn: Smita Sumbaly

Re: Project ID: RFP 085
Chemtech Project # Z5921

Enclosed please find the revised Case Narrative and Non-conformance sheet, as per your request. The pages are numbered. Please replace the old data.

Please do not hesitate to contact us if we can be of further service. We appreciate your patience in this matter.

Sincerely,

Krupa Dubey
QA/QC Director
CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092
(908) 789-8900 Ext. 208
www.chemtech.net

COVER PAGE

OrderID: Z5921**ProjectID:** RFP 085**CustomerName:** Weston Solutions, Inc.**LAB SAMPLE NO.**

Z5921-01

Z5921-02

Z5921-03

Z5921-04

Z5921-05

Z5921-06

Z5921-07

Z5921-08

Z5921-09

Z5921-10

Z5921-11

Z5921-12

CLIENT SAMPLE NO.

JW-LD-3

JW-LD-4

JW-LD-5

JW-LD-6

JW-LD-7

JW-LD-BK01

JW-LD-BK-1

JW-LD-FB

JW-LD-FB1218

JW-LD-LB

JW-LD-RST-1218

JW-LD-RST2

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: Mildred V. Reyes Mildred V. Reyes
I am approving this document
Date: 2009.01.05 15:56:46 -05'00'



CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 085
Project # N/A
Chemtech Project # Z5921

A. Number of Samples and Date of Receipt:
12 Air samples were received on 12/19/08.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested:
Metals Group3. This data package contains results for Metals Group3.

C. Analytical Techniques:
The analysis of Metals Group3 was based on method 7300/6010B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Lab Control Sample met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature  Mildred V. Reyes
I am approving this document
2009.02.10 15:21:18 -05'00'

Inorganic**DATA REPORTING QUALIFIERS**

For reporting results, the following " Results Qualifiers" are used:

- J** If the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
- U** If the analyte was analyzed for, but not detected.
- E** The reported value is estimated because of the presence of interference
- M** Duplicate injection precision not met.
- N** Spiked sample recovery not within control limits.
- S** The reported value was determined by the Method of Standard Addition (MSA).
- W** Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while absorbance is less than 50% of spike absorbance.
- *** Duplicate analysis not within control limits.
- +** Correlation coefficient for the MSA is less than 0.995.
- ***** Entering "S", "W" or "+" is mutually exclusive. NO combination of these qualifiers can appear in the same field for an analyte.
- D** The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
- M** Method qualifiers
"P" for ICP instrument
"A" for Flame AA
"PM" for ICP when Microwave Digestion is used
"AM" for flame AA when Microwave Digestion is used
"FM" for furnace AA when Microwave Digestion is used
"CV" for Manual Cold Vapor AA
"AV" for automated Cold Vapor AA
"CA" for MIDI-Distillation Spectrophotometric
"AS" for Semi -Automated Spectrophotometric
"C" for Manual Spectrophotometric
"T" for Titrimetric
"NR" for analyte not required to be analyzed
- OR** Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-3

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-01
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.041 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-4

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.

Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921

Matrix (soil/water): AIR Lab Sample ID: Z5921-02

Level (low/med): LOW Date Received: 12/19/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.046 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-5

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.

Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921

Matrix (soil/water): AIR Lab Sample ID: Z5921-03

Level (low/med): LOW Date Received: 12/19/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.057 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-6

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.

Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921

Matrix (soil/water): AIR Lab Sample ID: Z5921-04

Level (low/med): LOW Date Received: 12/19/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.073 | | | P |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Metals
IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-7

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.

Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921

Matrix (soil/water): AIR Lab Sample ID: Z5921-05

Level (low/med): LOW Date Received: 12/19/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.053 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-BK01

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-06
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.721 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-BK-1

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-07
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.379 | | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-FB

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.

Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921

Matrix (soil/water): AIR Lab Sample ID: Z5921-08

Level (low/med): LOW Date Received: 12/19/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/FILTE

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.042 | U | | P |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-FB1218

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-09
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/FILTE

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.042 | U | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-LB

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-10
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/FILTE

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.042 | U | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-RST-1218

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-11
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.237 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-RST2

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-12
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.071 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

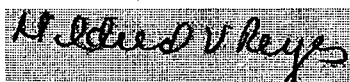
METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Z5921

MATRIX: Air

METHOD: 7300/6010

- | | NA | NO | YES |
|------------------------------------------------------------------------------------------------|----|----|-----|
| 1. Calibration Summary met criteria. | | | ✓ |
| 2. ICP Interference Check Sample Results Summary Submitted. | | | ✓ |
| 3. Serial Dilution Summary (if applicable) Submitted. | ✓ | | |
| 4. Laboratory Control Sample Summary (if applicable) Submitted. | | | ✓ |
| 5. Blank Contamination - If yes, list compounds and concentrations in each blank: | | | ✓ |
| 6. Matrix Spike/Matrix Spike Duplicate Recoveries Met Criteria | ✓ | | |
| If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | |
| 7. Sample Duplicate Analysis Met QC Criteria | ✓ | | |
| If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | |
| 8. Digestion Holding Time Met | | | ✓ |
| If not met, list number of days exceeded for each sample: | | | |
| 9. Analysis Holding Time Met | | | ✓ |
| If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | |

Mildred V. Reyes
I am approving this document
2009.02.10 15:16:33 -05'00'

QA REVIEW

Date

No: JW-12/18/08-0001

Edison, NJ 08837

Site #: JW

Contact Name: Gary Boyer

Lab: Chemtech

RFP#: 085/PO# 0065659

Contact Phone: 732-585-4437

Lab Phone: 908-789-8900

[illegible]

| | |
|-----------------------|--------------------------|
| Special Instructions: | SAMPLES TRANSFERRED FROM |
| | CHAIN OF CUSTODY # |

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished By | Date | Received by | Date | Time |
|--------------|-------------------------|----------|-------------|----------|------|--------------|-----------------|------|-------------|------|------|
| all transfer | Gary Boyer Ray Boyer | 12/18/08 | Fed Ex | 12/18/08 | 1900 | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | FED EX | 12-19-08 | a J. West | 12-19-08 | 9:40 | | | | | | |



Weston Solutions, Inc.
Federal Programs Division
Suite 201
1090 King Georges Post Road
Edison, New Jersey 08837-3703
732-585-4400 • Fax 732-225-7037
www.westonsolutions.com

The Trusted Integrator for Sustainable Solutions

REMOVAL SUPPORT TEAM 2
EPA CONTRACT EP-W-06-072

RST 2-02-F-0838

TRANSMITTAL MEMO

To: Nicholas Magriples, OSC
Removal Action Branch
U.S. EPA Region II

From: Smita Sumbaly, Inorganic Data Reviewer
RST 2 Region II

Subject: Jewett White Lead Company Site
Data Validation Assessment

Date: February 12, 2009

The purpose of this memo is to transmit the following information:

- Data validation results for the following parameters:

| | |
|------------|------------|
| Total Lead | 12 samples |
|------------|------------|
- Matrices and Number of Samples

| | |
|-----|------------|
| Air | 12 samples |
|-----|------------|
- Sampling Dates: December 17 and 18, 2008

The final data assessment narrative and original analytical data package are attached.

| | | |
|-----|------------------------|--------------|
| cc: | RST 2 SPM: | Gary Boyer |
| | RST 2 SITE FILE TDD #: | TO-0009-0126 |
| | ANALYTICAL TDD #: | TO-0009-0136 |
| | PCS# | 2139 |



U.S. ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE: February 11, 2009

TO: Nick Magriples, OSC
USEPA Region II

FROM: Smita Sumbaly
RST 2 Data Review Team

SUBJECT: QA/QC Compliance Review Summary

As requested quality control and performance measures for the data packages noted have been examined and compared to EPA standards for compliance. Measures for the following general areas were evaluated as applicable:

| | |
|--------------------------|------------------------|
| Data Completeness | Blanks |
| Spectra Matching Quality | DFTPP and BFB Tuning |
| Surrogate Spikes | Chromatography |
| Matrix Spikes/Duplicates | Holding Times |
| Calibration | Compound ID (HSL, TIC) |

Any statistical measures used to support the following conclusions are attached so that the review may be reviewed by others.

Summary of Results

| | I <u>Lead</u> | II _____ | III _____ |
|------------------------------|------------------|-------------|--------------|
| Acceptable as Submitted | <u>X</u> | _____ | _____ |
| Acceptable with Comments | _____ | _____ | _____ |
| Unacceptable, Action Pending | _____ | _____ | _____ |
| Unacceptable | _____ | _____ | _____ |

Data Reviewed by:

Smita Sumbaly

Date: 2/11/09

Approved By:

Jennifer Sy

Date: 2/12/09

Area Code/Phone No.:

(732) 585-4410

NARRATIVE

CASE No. 2139

SITE NAME: Jewett White Lead Company Site
2000 Richmond Terrace
Staten Island, New York

Laboratory Name: Chemtech, 284 Sheffield Street, Mountainside, New Jersey 07092.

INTRODUCTION:

The laboratory's portion of this Case consisted of 12 air samples collected on December 17 and 18, 2008.

The laboratory reported No problem(s) with the receipt of these samples.

The laboratory reported No problems with the analyses of Total Lead - Inorganic parameter.

The evaluator has commented on the criteria specified under each fraction heading. All criteria have been assessed, but no discussion is given where the evaluator has determined that criteria were adequately performed or require no comment. Details relevant to these comments are given on the following forms.

Appropriate Form Is and Chain of Custody have been copied from the original data package and appended to the data assessment narrative for reference.

IV. Inorganic:-

| | |
|-----------------------------------------------------|---------------------------------------------|
| <u>Y</u> Data Summary/Tabulated Results | <u>Y</u> Initial and Continuing Calibration |
| <u>Y</u> Blanks | <u>Y</u> ICP Interference Check |
| <u>NA</u> Spike Sample Recovery | <u>Y</u> Duplicates |
| <u>Y</u> Detection Limits | <u>NA</u> Standard Addition Results |
| <u>NA</u> ICP Serial Dilutions | <u>Y</u> Holding Times |
| <u>NA</u> ICP Interement Correction Factors | <u>NA</u> ICP Linear Ranges |
| <u>Y</u> Chain of Custody | <u>Y</u> Raw Data |
| <u>Y</u> Quantitation, Conversions, Dilutions, etc. | |

Comments:

1. Refer to Data Assessment Narrative.

Title: Evaluation of Inorganic Data for the
Contract laboratory Program
Appendix A.2: Data Assessment Narrative

Date: September 2006
Number: HW-2
Revision: 13

PCS #: 2139

Site: Jewett White Lead Chemical Site

SDG#: Z5921

Lab: Chemtech

Matrix:
Air; 12

Contractor: WESTON-RST 2

Reviewer: SMITA SUMBALY

A.2.1 Validation Flags-

The following flags have been applied in red by the data validator and must be considered by the data user.

J-

This flag indicates the result qualified as estimated.

Red- Line-

A red-line drawn through a sample result indicates an unusable value. The red-lined data are known to contain significant errors based on documented information and must not be used by the data user.

Fully Usable Data-

The results that do not carry "J" or "red-line" are fully usable.

Contractual Qualifiers-

The legend of contractual qualifiers applied by the laboratory on Form Is are found on page B – 23 of SOW ILM05.3.

A.2.2 The data assessment is given below and on the attached sheets.

On December 17 and 18, 2008, USEPA Region II RST 2 sampling personnel collected 12 air samples, including two field blanks and one lot blank from the Jewett White Lead Company Site, located in 2000 Richmond Terrace, Staten Island, New York. Within twenty-four hours of collection, the samples were shipped overnight by FedEx courier to Chemtech, 284 Sheffield Street, Mountainside, New Jersey. The laboratory verified that the samples were received intact and properly custody sealed.

Lead analysis for air matrix was prepared by NIOSH Method No. 7300 and analyzed by SW 846 Method No. 6010B.

Client identification (ID) and laboratory ID numbers are as follows:

| Field Sample ID | Lab Sample ID | Matrix | Analysis | Sampling Date |
|-----------------|---------------|--------|----------|---------------|
| JW-LD-3 | Z5921-01 | Air | Lead | 12/18/2008 |
| JW-LD-4 | Z5921-02 | | | 12/18/2008 |
| JW-LD-5 | Z5921-03 | | | 12/18/2008 |
| JW-LD-6 | Z5921-04 | | | 12/18/2008 |
| JW-LD-7 | Z5921-05 | | | 12/18/2008 |
| JW-LD-BK01 | Z5921-06 | | | 12/18/2008 |

Title: Evaluation of Inorganic Data for the
Contract laboratory Program
Appendix A.2: Data Assessment Narrative

Date: September 2006
Number: HW-2
Revision: 13

A.2.2 Continuation

| Field Sample ID | Lab Sample ID | Matrix | Analysis | Sampling Date |
|-----------------|---------------|--------|----------|---------------|
| JW-LD-BK-1 | Z5921-07 | Air | Lead | 12/17/2008 |
| JW-LD-FB | Z5921-08 | | | 12/17/2008 |
| JW-LD-FB 1218 | Z5921-09 | | | 12/18/2008 |
| JW-LD-LB | Z5921-10 | | | 12/18/2008 |
| JW-LD-RST-1218 | Z5921-11 | | | 12/18/2008 |
| JW-LD-RST2 | Z5921-12 | | | 12/17/2008 |

All samples were submitted for screening data with definitive detection limit QA objectives. Matrix Spike, Matrix Spike Duplicate and a field duplicate sample was not collected. All samples were analyzed within the holding time.

The laboratory provided the supporting raw data for this package. This data package contains summary of analytical results, blank results, initial and continuing calibration recovery, lab duplicate results, laboratory control sample results, and analysis run log. The correlation coefficient (r^2) of standard concentration versus absorbance readings is greater than ($>$) 0.995 for linear calibration curves generated in the data package. All ICVs/CCVs were run at appropriate intervals as noted on the Calibration Summary form and all ICV/CCV recoveries are within the acceptable range of 90 to 110%. All ICB/CCBs are reported below the method detection limit. Laboratory duplicate analysis is within QC criteria ($\leq 20\%$ RPD) and LCS recoveries are within the acceptable range of 80-120%.

Since the sample analyses were requested for screening data with definitive confirmation, data was evaluated for holding time, calibration, and detection limit criterion.

The results presented in the data package are acceptable as reported.

A.2.3 Contract Problem/Non-Compliance:

Contractor Reviewer:

Smita Sumbaly
Signature

2/12/09
Date:

Verified by:

Signature

Date:

TOTAL METALS WORK TABLE

Project: Jewett White Lead Company Site

SAMPLE #/CONCENTRATION (UG/M3)

Sampling Dates: December 17 and 18, 2008

| | | | | | |
|-----------------|------------|----------|----------|----------|----------|
| Matrix: | Reporting | Air | Air | Air | Air |
| Client ID: | Limit (RL) | JW-LD-3 | JW-LD-4 | JW-LD-5 | JW-LD-6 |
| Lab ID: | | Z5921-01 | Z5921-02 | Z5921-03 | Z5921-04 |
| Air Volume | | 728 L | 709.8 L | 704.45 L | 731.83 L |
| Dilution Factor | ug/Filter | 1.0 | 1.0 | 1.0 | 1.0 |
| | | | | | |
| Lead | 0.042 | 0.041 J | 0.046 J | 0.057 J | 0.073 |

| | | | | | |
|-----------------|------------|----------|------------|------------|----------|
| Matrix: | Reporting | Air | Air | Air | Air |
| Client ID: | Limit (RL) | JW-LD-7 | JW-LD-BK01 | JW-LD-BK-1 | JW-LD-FB |
| Lab ID: | | Z5921-05 | Z5921-06 | Z5921-07 | Z5921-08 |
| Air Volume | | 743.18 L | 32.9 L | 556.7 L | NA |
| Dilution Factor | | 1.0 | 1.0 | 1.0 | 1.0 |
| | | | | | |
| Lead | 0.042 | 0.053 J | 0.721 J | 0.379 | U |

| | | | | | |
|-----------------|------------|--------------|----------|----------------|------------|
| Matrix: | Reporting | Air | Air | Air | Air |
| Client ID: | Limit (RL) | JW-LD-FB1218 | JW-LD-LB | JW-LD-RST-1218 | JW-LD-RST2 |
| Lab ID: | | Z5921-09 | Z5921-10 | Z5921-11 | Z5921-12 |
| Air Volume | | NA | NA | 161.54 L | 556.48 L |
| Dilution Factor | | 1.0 | 1.0 | 1.0 | 1.0 |
| | | | | | |
| Lead | 0.042 | U | U | 0.237 J | 0.071 J |

Inorganic Qualifiers

U - non-detected compound

J - estimated value

R - rejected compound

Note: - RL reported on the Form Is have been adjusted to reflect the final volume and volume of air



284 Sheffield Street • Mountainside, NJ 07092 Phone: 908.789.8900 Fax: 908.789.8922

February 11, 2009

Weston Solutions, Inc.
Raritan Plaza Suite 201
1090 King Georges Post Road
Edison, NJ 08837-3703

Attn: Smita Sumbaly

Re: Project ID: RFP 085
Chemtech Project # Z5921

Enclosed please find the revised Case Narrative and Non-conformance sheet, as per your request. The pages are numbered. Please replace the old data.

Please do not hesitate to contact us if we can be of further service. We appreciate your patience in this matter.

Sincerely,

Krupa Dubey
QA/QC Director
CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092
(908) 789-8900 Ext. 208
www.chemtech.net

COVER PAGE

OrderID: Z5921

ProjectID: RFP 085

CustomerName: Weston Solutions, Inc.

LAB SAMPLE NO.

Z5921-01

Z5921-02

Z5921-03

Z5921-04

Z5921-05

Z5921-06

Z5921-07

Z5921-08

Z5921-09

Z5921-10

Z5921-11

Z5921-12

CLIENT SAMPLE NO

JW-LD-3

JW-LD-4

JW-LD-5

JW-LD-6

JW-LD-7

JW-LD-BK01

JW-LD-BK-1

JW-LD-FB

JW-LD-FB1218

JW-LD-LB

JW-LD-RST-1218

JW-LD-RST2

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: Mildred V. Reyes Mildred V. Reyes
I am approving this document
Date: 2009.01.05 15:56:46 -05'00'



CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 085
Project # N/A
Chemtech Project # Z5921

A. Number of Samples and Date of Receipt:

12 Air samples were received on 12/19/08.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Metals Group3. This data package contains results for Metals Group3.

C. Analytical Techniques:

The analysis of Metals Group3 was based on method 7300/6010B.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Lab Control Sample met requirements for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature

Mildred V. Reyes
I am approving this document
2009.02.10 15:21:18 -05'00'

Inorganic**DATA REPORTING QUALIFIERS**

For reporting results, the following "Results Qualifiers" are used:

- J** If the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
- U** If the analyte was analyzed for, but not detected.
- E** The reported value is estimated because of the presence of interference
- M** Duplicate injection precision not met.
- N** Spiked sample recovery not within control limits.
- S** The reported value was determined by the Method of Standard Addition (MSA).
- W** Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while absorbance is less than 50% of spike absorbance.
- *** Duplicate analysis not within control limits.
- +** Correlation coefficient for the MSA is less than 0.995.
- ***** Entering "S", "W" or "+" is mutually exclusive. NO combination of these qualifiers can appear in the same field for an analyte.
- D** The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
- M** Method qualifiers
 "P" for ICP instrument
 "A" for Flame AA
 "PM" for ICP when Microwave Digestion is used
 "AM" for flame AA when Microwave Digestion is used
 "FM" for furnace AA when Microwave Digestion is used
 "CV" for Manual Cold Vapor AA
 "AV" for automated Cold Vapor AA
 "CA" for MIDI-Distillation Spectrophotometric
 "AS" for Semi -Automated Spectrophotometric
 "C" for Manual Spectrophotometric
 "T" for Titrimetric
 "NR" for analyte not required to be analyzed
- OR** Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-3

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-01
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.041 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Metals
IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-4

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-02
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.046 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-5

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-03
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.057 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-6

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-04
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.073 | | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-7

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-05
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.053 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-BK01

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.

Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921

Matrix (soil/water): AIR Lab Sample ID: Z5921-06

Level (low/med): LOW Date Received: 12/19/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.721 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-BK-1

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-07
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.379 | | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-FB

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-08
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/FILTE

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.042 | U | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-FB1218

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.

Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921

Matrix (soil/water): AIR Lab Sample ID: Z5921-09

Level (low/med): LOW Date Received: 12/19/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/FILTE

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.042 | U | | P |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-RST-1218

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-11
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.237 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Metals
IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-LB

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-10
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/FILTE

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.042 | U | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-RST2

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-12
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.071 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092
NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

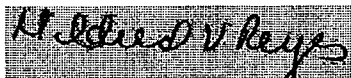
CHEMTECH PROJECT NUMBER: Z5921

MATRIX: Air

METHOD: 7300/6010

- | | NA | NO | YES |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----|
| 1. Calibration Summary met criteria. | | | ✓ |
| 2. ICP Interference Check Sample Results Summary Submitted. | | | ✓ |
| 3. Serial Dilution Summary (if applicable) Submitted. | ✓ | | |
| 4. Laboratory Control Sample Summary (if applicable) Submitted. | | | ✓ |
| 5. Blank Contamination - If yes, list compounds and concentrations in each blank: | | | ✓ |
| 6. Matrix Spike/Matrix Spike Duplicate Recoveries Met Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. | ✓ | | |
| 7. Sample Duplicate Analysis Met QC Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. | ✓ | | |
| 8. Digestion Holding Time Met If not met, list number of days exceeded for each sample: | | | ✓ |
| 9. Analysis Holding Time Met If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | ✓ |

QA REVIEW



Mildred V. Reyes
I am approving this document
2009.02.10 15:16:33 -05'00'

Date

No: JW-12/18/08-0001

Lab: Chemtech
Lab Phone: 908-789-8900

[illegible]

| | |
|-----------------------|--------------------------|
| Special Instructions: | SAMPLES TRANSFERRED FROM |
| | CHAIN OF CUSTODY # |

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished By | Date | Received by | Date | Time |
|--------------|-----------------------------------|----------|-------------|----------|------|--------------|-----------------|------|-------------|------|------|
| all transfer | Garry Boyer <i>[Signature]</i> | 12/18/08 | Fed Ex | 12/18/08 | 1900 | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | FED EX | 12-19-08 | A J. West | 12-19-08 | 9:40 | | | | | | |

U.S. ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE: February 11, 2009

TO: Nick Magriples, OSC
USEPA Region II

FROM: Smita Sumbaly
RST 2 Data Review Team

SUBJECT: QA/QC Compliance Review Summary

As requested quality control and performance measures for the data packages noted have been examined and compared to EPA standards for compliance. Measures for the following general areas were evaluated as applicable:

| | |
|--------------------------|------------------------|
| Data Completeness | Blanks |
| Spectra Matching Quality | DFTPP and BFB Tuning |
| Surrogate Spikes | Chromatography |
| Matrix Spikes/Duplicates | Holding Times |
| Calibration | Compound ID (HSL, TIC) |

Any statistical measures used to support the following conclusions are attached so that the review may be reviewed by others.

Summary of Results

| | <u>I</u> | <u>II</u> | <u>III</u> |
|------------------------------|-------------|-----------|------------|
| | <u>Lead</u> | | |
| Acceptable as Submitted | <u>X</u> | | |
| Acceptable with Comments | | | |
| Unacceptable, Action Pending | | | |
| Unacceptable | | | |

Data Reviewed by:

Smita Sumbaly

Date: 2/11/09

Approved By:

James G.

Date: 2/12/09

Area Code/Phone No.:

(732) 585-4410

NARRATIVE

CASE No. 2139

SITE NAME: Jewett White Lead Company Site

2000 Richmond Terrace
Staten Island, New York

Laboratory Name: Chemtech, 284 Sheffield Street, Mountainside, New Jersey 07092.

INTRODUCTION:

The laboratory's portion of this Case consisted of 12 air samples collected on December 17 and 18, 2008.

The laboratory reported No problem(s) with the receipt of these samples.

The laboratory reported No problems with the analyses of Total Lead - Inorganic parameter.

The evaluator has commented on the criteria specified under each fraction heading. All criteria have been assessed, but no discussion is given where the evaluator has determined that criteria were adequately performed or require no comment. Details relevant to these comments are given on the following forms.

Appropriate Form Is and Chain of Custody have been copied from the original data package and appended to the data assessment narrative for reference.

IV. Inorganic:-

| | |
|-----------------------------------------------------|---------------------------------------------|
| <u>Y</u> Data Summary/Tabulated Results | <u>Y</u> Initial and Continuing Calibration |
| <u>Y</u> Blanks | <u>Y</u> ICP Interference Check |
| <u>NA</u> Spike Sample Recovery | <u>Y</u> Duplicates |
| <u>Y</u> Detection Limits | <u>NA</u> Standard Addition Results |
| <u>NA</u> ICP Serial Dilutions | <u>Y</u> Holding Times |
| <u>NA</u> ICP Interelement Correction Factors | <u>NA</u> ICP Linear Ranges |
| <u>Y</u> Chain of Custody | <u>Y</u> Raw Data |
| <u>Y</u> Quantitation, Conversions, Dilutions, etc. | |

Comments:

1. Refer to Data Assessment Narrative.

Title: Evaluation of Inorganic Data for the
Contract laboratory Program
Appendix A.2: Data Assessment Narrative

Date: September 2006
Number: HW-2
Revision: 13

PCS #: 2139

Site: Jewett White Lead Chemical Site

SDG#: Z5921

Lab: Chemtech

Matrix:
Air: 12

Contractor: WESTON-RST 2

Reviewer: SMITA SUMBALY

A.2.1 Validation Flags-

The following flags have been applied in red by the data validator and must be considered by the data user.

J-

This flag indicates the result qualified as estimated.

Red- Line-

A red-line drawn through a sample result indicates an unusable value. The red-lined data are known to contain significant errors based on documented information and must not be used by the data user.

Fully Usable Data-

The results that do not carry "J" or "red-line" are fully usable.

Contractual Qualifiers-

The legend of contractual qualifiers applied by the laboratory on Form Is are found on page B – 23 of SOW ILM05.3.

A.2.2 The data assessment is given below and on the attached sheets.

On December 17 and 18, 2008, USEPA Region II RST 2 sampling personnel collected 12 air samples, including two field blanks and one lot blank from the Jewett White Lead Company Site, located in 2000 Richmond Terrace, Staten Island, New York. Within twenty-four hours of collection, the samples were shipped overnight by FedEx courier to Chemtech, 284 Sheffield Street, Mountainside, New Jersey. The laboratory verified that the samples were received intact and properly custody sealed.

Lead analysis for air matrix was prepared by NIOSH Method No. 7300 and analyzed by SW 846 Method No. 6010B.

Client identification (ID) and laboratory ID numbers are as follows:

| Field Sample ID | Lab Sample ID | Matrix | Analysis | Sampling Date |
|-----------------|---------------|--------|----------|---------------|
| JW-LD-3 | Z5921-01 | Air | Lead | 12/18/2008 |
| JW-LD-4 | Z5921-02 | | | 12/18/2008 |
| JW-LD-5 | Z5921-03 | | | 12/18/2008 |
| JW-LD-6 | Z5921-04 | | | 12/18/2008 |
| JW-LD-7 | Z5921-05 | | | 12/18/2008 |
| JW-LD-BK01 | Z5921-06 | | | 12/18/2008 |

Title: Evaluation of Inorganic Data for the
Contract laboratory Program
Appendix A.2: Data Assessment Narrative

Date: September 2006
Number: HW-2
Revision: 13

A.2.2 Continuation

| Field Sample ID | Lab Sample ID | Matrix | Analysis | Sampling Date |
|-----------------|---------------|--------|----------|---------------|
| JW-LD-BK-1 | Z5921-07 | Air | Lead | 12/17/2008 |
| JW-LD-FB | Z5921-08 | | | 12/17/2008 |
| JW-LD-FB 1218 | Z5921-09 | | | 12/18/2008 |
| JW-LD-LB | Z5921-10 | | | 12/18/2008 |
| JW-LD-RST-1218 | Z5921-11 | | | 12/18/2008 |
| JW-LD-RST2 | Z5921-12 | | | 12/17/2008 |

All samples were submitted for screening data with definitive detection limit QA objectives. Matrix Spike, Matrix Spike Duplicate and a field duplicate sample was not collected. All samples were analyzed within the holding time. The laboratory provided the supporting raw data for this package. This data package contains summary of analytical results, blank results, initial and continuing calibration recovery, lab duplicate results, laboratory control sample results, and analysis run log. The correlation coefficient (r^2) of standard concentration versus absorbance readings is greater than ($>$) 0.995 for linear calibration curves generated in the data package. All ICVs/CCVs were run at appropriate intervals as noted on the Calibration Summary form and all ICV/CCV recoveries are within the acceptable range of 90 to 110%. All ICB/CCBs are reported below the method detection limit. Laboratory duplicate analysis is within QC criteria ($\leq 20\%$ RPD) and LCS recoveries are within the acceptable range of 80-120%.

Since the sample analyses were requested for screening data with definitive confirmation, data was evaluated for holding time, calibration, and detection limit criterion.

The results presented in the data package are acceptable as reported.

A.2.3 Contract Problem/Non-Compliance:

Contractor Reviewer:

Smita Sumbaly
Signature

2/12/09
Date:

Verified by:

Signature

Date:

TOTAL METALS WORK TABLE

Project: Jewett White Lead Company Site

SAMPLE #/CONCENTRATION (UG/M3)

Sampling Dates: December 17 and 18, 2008

| | | | | | |
|-----------------|------------|----------|----------|----------|----------|
| Matrix: | Reporting | Air | Air | Air | Air |
| Client ID: | Limit (RL) | JW-LD-3 | JW-LD-4 | JW-LD-5 | JW-LD-6 |
| Lab ID: | | Z5921-01 | Z5921-02 | Z5921-03 | Z5921-04 |
| Air Volume | | 728 L | 709.8 L | 704.45 L | 731.83 L |
| Dilution Factor | ug/Filter | 1.0 | 1.0 | 1.0 | 1.0 |
| | | | | | |
| Lead | 0.042 | 0.041 J | 0.046 J | 0.057 J | 0.073 |

| | | | | | |
|-----------------|------------|----------|------------|------------|----------|
| Matrix: | Reporting | Air | Air | Air | Air |
| Client ID: | Limit (RL) | JW-LD-7 | JW-LD-BK01 | JW-LD-BK-1 | JW-LD-FB |
| Lab ID: | | Z5921-05 | Z5921-06 | Z5921-07 | Z5921-08 |
| Air Volume | | 743.18 L | 32.9 L | 556.7 L | NA |
| Dilution Factor | | 1.0 | 1.0 | 1.0 | 1.0 |
| | | | | | |
| Lead | 0.042 | 0.053 J | 0.721 J | 0.379 | U |

| | | | | | |
|-----------------|------------|--------------|----------|----------------|------------|
| Matrix: | Reporting | Air | Air | Air | Air |
| Client ID: | Limit (RL) | JW-LD-FB1218 | JW-LD-LB | JW-LD-RST-1218 | JW-LD-RST2 |
| Lab ID: | | Z5921-09 | Z5921-10 | Z5921-11 | Z5921-12 |
| Air Volume | | NA | NA | 161.54 L | 556.48 L |
| Dilution Factor | | 1.0 | 1.0 | 1.0 | 1.0 |
| | | | | | |
| Lead | 0.042 | U | U | 0.237 J | 0.071 J |

Inorganic Qualifiers

U - non-detected compound

J - estimated value

R - rejected compound

Note: - RL reported on the Form 1s have been adjusted to reflect the final volume and volume of air



284 Sheffield Street • Mountainside, NJ 07092 Phone: 908.789.8900 Fax: 908.789.8922

February 11, 2009

Weston Solutions, Inc.
Raritan Plaza Suite 201
1090 King Georges Post Road
Edison, NJ 08837-3703

Attn: Smita Sumbaly

Re: Project ID: RFP 085
Chemtech Project # Z5921

Enclosed please find the revised Case Narrative and Non-conformance sheet, as per your request. The pages are numbered. Please replace the old data.

Please do not hesitate to contact us if we can be of further service. We appreciate your patience in this matter.

Sincerely,

Krupa Dubey
QA/QC Director
CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092
(908) 789-8900 Ext. 208
www.chemtech.net

EXPRESS SERVICE ENVIRONMENTAL LABORATORY
... THE DIFFERENCE

COVER PAGE

OrderID: Z5921**ProjectID:** RFP 085**CustomerName:** Weston Solutions, Inc.**LAB SAMPLE NO.**

Z5921-01

Z5921-02

Z5921-03

Z5921-04

Z5921-05

Z5921-06

Z5921-07

Z5921-08

Z5921-09

Z5921-10

Z5921-11

Z5921-12

CLIENT SAMPLE NO

JW-LD-3

JW-LD-4

JW-LD-5

JW-LD-6

JW-LD-7

JW-LD-BK01

JW-LD-BK-1

JW-LD-FB

JW-LD-FB1218

JW-LD-LB

JW-LD-RST-1218

JW-LD-RST2

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: Mildred V. Reyes Mildred V. Reyes
Date: 2009.01.05 15:56:46 -05'00' I am approving this document



CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 085
Project # N/A
Chemtech Project # Z5921

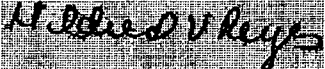
A. Number of Samples and Date of Receipt:
12 Air samples were received on 12/19/08.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested:
Metals Group3. This data package contains results for Metals Group3.

C. Analytical Techniques:
The analysis of Metals Group3 was based on method 7300/6010B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Lab Control Sample met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature  Mildred V. Reyes
I am approving this document
2009.02.10 15:21:18 -05'00'

Inorganic**DATA REPORTING QUALIFIERS**

For reporting results, the following "Results Qualifiers" are used:

- J** If the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
- U** If the analyte was analyzed for, but not detected.
- E** The reported value is estimated because of the presence of interference
- M** Duplicate injection precision not met.
- N** Spiked sample recovery not within control limits.
- S** The reported value was determined by the Method of Standard Addition (MSA).
- W** Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while absorbance is less than 50% of spike absorbance.
- *** Duplicate analysis not within control limits.
- +** Correlation coefficient for the MSA is less than 0.995.
- ***** Entering "S", "W" or "+" is mutually exclusive. NO combination of these qualifiers can appear in the same field for an analyte.
- D** The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
- M** Method qualifiers
"P" for ICP instrument
"A" for Flame AA
"PM" for ICP when Microwave Digestion is used
"AM" for flame AA when Microwave Digestion is used
"FM" for furnace AA when Microwave Digestion is used
"CV" for Manual Cold Vapor AA
"AV" for automated Cold Vapor AA
"CA" for MIDI-Distillation Spectrophotometric
"AS" for Semi -Automated Spectrophotometric
"C" for Manual Spectrophotometric
"T" for Titrimetric
"NR" for analyte not required to be analyzed
- OR** Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-3

Lab Name: Chemtech Consulting Group

Contract: Weston Solutions, Inc.

Lab Code: CTECH Case No.: Z5921

NRAS No.: Z5921 SDG NO.: Z5921

Matrix (soil/water): AIR

Lab Sample ID: Z5921-01

Level (low/med): LOW

Date Received: 12/19/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.041 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Metals
IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-4

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-02
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.046 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-5

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-03
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.057 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-6

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-04
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.073 | | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-ID-7

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-05
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.053 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-BK01

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-06
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.721 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-BK-1

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-07
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.379 | | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-FB

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-08
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/FILTE

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.042 | U | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-FB1218

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-09
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/FILTE

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.042 | U | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Metals
IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-LB

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-10
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/FILTE

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.042 | U | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Metals
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-RST-1218

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-11
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.237 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

Metals
IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-RST2

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc.
Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921
Matrix (soil/water): AIR Lab Sample ID: Z5921-12
Level (low/med): LOW Date Received: 12/19/2008
% Solids: 0.0
Concentration Units (ug/L or mg/kg dry weight): UG/M3

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-92-1 | Lead | 0.071 | J | | P |

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092
NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Z5921

MATRIX: Air

METHOD: 7300/6010

- | | NA | NO | YES |
|------------------------------------------------------------------------------------------------|----|----|-----|
| 1. Calibration Summary met criteria. | | | ✓ |
| 2. ICP Interference Check Sample Results Summary Submitted. | | | ✓ |
| 3. Serial Dilution Summary (if applicable) Submitted. | ✓ | | |
| 4. Laboratory Control Sample Summary (if applicable) Submitted. | | | ✓ |
| 5. Blank Contamination - If yes, list compounds and concentrations in each blank: | | | ✓ |
| 6. Matrix Spike/Matrix Spike Duplicate Recoveries Met Criteria | ✓ | | |
| If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | |
| 7. Sample Duplicate Analysis Met QC Criteria | ✓ | | |
| If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | |
| 8. Digestion Holding Time Met | | | ✓ |
| If not met, list number of days exceeded for each sample: | | | |
| 9. Analysis Holding Time Met | | | ✓ |
| If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | |

Mildred V. Reyes

Mildred V. Reyes
I am approving this document
2009.02.10 15:16:33 -05'00'

QA REVIEW

Date

RFP#: 085/PO# 0065659

No: JW-12/18/08-0001

Lab: Chemtech

Lab Phone: 908-789-8900

Contact Phone: 732-585-4437

Special Instructions:

[illegible]